

EAST Search History

EAST Search History (Prior Art)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|--------|---|---------------------------------|------------------|---------|---------------------|
| L1 | 10544 | 430/5.ccls. | US-PGPUB; USPAT; EPO; JPO | ADJ | ON | 2009/10/28 16:22 |
| L2 | 325 | 216/12.ccls. not 1 | US-PGPUB; USPAT; EPO; JPO | ADJ | ON | 2009/10/28 16:22 |
| L3 | 591780 | mask or photomask or reticle | US-PGPUB; USPAT; EPO; JPO | ADJ | ON | 2009/10/28 16:22 |
| L4 | 26856 | 3 near3 (phase or phased or phasing or shift or shifter or shifted or shifting) or \$3PSM | US-PGPUB; USPAT; EPO; JPO | ADJ | ON | 2009/10/28 16:23 |
| L5 | 965 | 4 same ((etch or etching or hard or harden or hardening or hardened) (mask or stop or stopper or stopping or protect or protector or protecting or protected) or hardmask or etchmask or etchstop or etchstopper) | US-PGPUB; USPAT; EPO; JPO | ADJ | ON | 2009/10/28 16:24 |
| L6 | 858 | 5 same (process or processing or processed or method or manufacture or manufacturing or manufactured or form or formed or forming or made or make or making or step) | US-PGPUB; USPAT; EPO; JPO | ADJ | ON | 2009/10/28 16:24 |

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| L7 | 220 | 6 and (4 and ((etch or etching or hard or harden or hardening or hardened) (mask or stop or stopper or stopping or protect or protector or protecting or protected) or hardmask or etchmask or etchstop or etchstopper) and (process or processing or processed or method or manufacture or manufacturing or manufactured or form or formed or forming or made or make or making or step)).clm. | US-PGPUB; USPAT; EPO; JPO | ADJ | ON | 2009/10/28 16:25 |
| L8 | 2807 | 4 same (contact or hole) | US-PGPUB; USPAT; EPO; JPO | ADJ | ON | 2009/10/28 16:26 |
| L9 | 1148 | 4 same (auxiliary or assist or assisting or assisted or optical proximity or "OPC" or subresolution or subresolve or subresolved or subresolving or nonresolution or nonresolve or nonresolved or nonresolving or subprint or subprinted or subprinting or nonprint or nonprinted or nonprinting or (sub or non or "not") (resolution or resolve or resolved or resolving or print or printed or printing)) near3 (pattern or hole or opening or feature or structure or component or shape or element) | US-PGPUB; USPAT; EPO; JPO | ADJ | ON | 2009/10/28 16:27 |
| L10 | 357 | 8 and 9 | US-PGPUB; USPAT; EPO; JPO | ADJ | ON | 2009/10/28 16:28 |
| L11 | 8 | 10 and 7 | US-PGPUB; USPAT; EPO; JPO | ADJ | ON | 2009/10/28 16:28 |
| L12 | 47 | (1 or 2) and 7 and (8 or 9) not 11 | US-PGPUB; USPAT; EPO; JPO | ADJ | ON | 2009/10/28 16:29 |

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| L13 | 35909 | (etchant or etch or etching or etched) same (dry or gas or gaseous or vapor or vaporous or plasma) same (fluorine or fluorinate or fluorinated or fluorinating or fluorination or carbontetrafluoride or carbon tetrafluoride or carbon tet or CF".sub.4" or CF4) | US-PGPUB; USPAT; EPO; JPO | ADJ | ON | 2009/10/28 16:31 |
| L14 | 204 | 13 same (shield or shielding or shielded or shade or shading or shaded or dark or darken or darkening or darkened or opaque or block or blocking or blocked or halftone or half tone or semitransparent or semi transparent or attenuate or attenuated or attenuating) same (chromium or chrome or "Cr" or molybdenum silicide or molybdenum silicon or MoSi or MoSi".sub."?) | US-PGPUB; USPAT; EPO; JPO | ADJ | ON | 2009/10/28 16:31 |
| L15 | 12 | (1 or 2) and 7 and 14 not 11 not 12 | US-PGPUB; USPAT; EPO; JPO | ADJ | ON | 2009/10/28 16:32 |
| L16 | 23 | (1 or 2) and 7 and 13 same (shield or shielding or shielded or shade or shading or shaded or dark or darken or darkening or darkened or opaque or block or blocking or blocked or halftone or half tone or semitransparent or semi transparent or attenuate or attenuated or attenuating or chromium or chrome or "Cr" or molybdenum silicide or molybdenum silicon or MoSi or MoSi".sub."?) not 11 not 12 not 15 | US-PGPUB; USPAT; EPO; JPO | ADJ | ON | 2009/10/28 16:34 |
| L17 | 5 | (1 or 2) and 6 same 14 not 11 not 12 not 15 not 16 | US-PGPUB; USPAT; EPO; JPO | ADJ | ON | 2009/10/28 16:35 |

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| L18 | 1 | (1 or 2) and 5 same 14 not 11 not 12 not 15 not 16 not 17 | US-PGPUB; USPAT; EPO; JPO | ADJ | ON | 2009/10/28 16:35 |
| L19 | 4 | (1 or 2) and 5 same (dry or gas or gaseous or vapor or vaporous or plasma) same (fluorine or fluorinate or fluorinated or fluorinating or fluorination or carbontetrafluoride or carbon tetrafluoride or carbon tet or CF".sub.4" or CF4) same (shield or shielding or shielded or shade or shading or shaded or dark or darken or darkening or darkened or opaque or block or blocking or blocked or halftone or half tone or semitransparent or semi transparent or attenuate or attenuated or attenuating or chromium or chrome or "Cr" or molybdenum silicide or molybdenum silicon or MoSi or MoSi".sub."?) not 11 not 12 not 15 not 16 not 17 not 18 | US-PGPUB; USPAT; EPO; JPO | ADJ | ON | 2009/10/28 16:39 |
| L20 | 1 | (Suda-Hideki).in. and (Hoya).as. and (1 or 2) and 5 not 11 not 12 not 15 not 16 not 17 not 18 not 19 | US-PGPUB; USPAT; EPO; JPO | ADJ | ON | 2009/10/28 16:40 |
| L21 | 10 | ((Suda-Hideki).in. or (Hoya).as.) and (1 or 2) and 5 not 11 not 12 not 15 not 16 not 17 not 18 not 19 not 20 | US-PGPUB; USPAT; EPO; JPO | ADJ | ON | 2009/10/28 16:41 |
| L22 | 4 | ((Suda-Hideki).in. or (Hoya).as.) and 5 not 11 not 12 not 15 not 16 not 17 not 18 not 19 not 20 not 21 | US-PGPUB; USPAT; EPO; JPO | ADJ | ON | 2009/10/28 16:42 |
| L23 | 1 | 9 and 7 not 11 not 12 not 15 not 16 not 17 not 18 not 19 not 20 not 21 not 22 | US-PGPUB; USPAT; EPO; JPO | ADJ | ON | 2009/10/28 16:46 |

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| L24 | 33 | (1 or 2) and 6 and 9 not 11 not 12 not 15 not 16 not 17 not 18 not 19 not 20 not 21 not 22 not 23 | US-PGPUB; USPAT; EPO; JPO | ADJ | ON | 2009/10/28 16:50 |
| L25 | 8 | (1 or 2) and 6 and 14 not 11 not 12 not 15 not 16 not 17 not 18 not 19 not 20 not 21 not 22 not 23 not 24 | US-PGPUB; USPAT; EPO; JPO | ADJ | ON | 2009/10/28 16:59 |
| L26 | 11 | (1 or 2) and 6 and 13 same (shield or shielding or shielded or shade or shading or shaded or dark or darken or darkening or darkened or opaque or block or blocking or blocked or halftone or half tone or semitransparent or semi transparent or attenuate or attenuated or attenuating or chromium or chrome or "Cr" or molybdenum silicide or molybdenum silicon or MoSi or MoSi".sub."?) not 11 not 12 not 15 not 16 not 17 not 18 not 19 not 20 not 21 not 22 not 23 not 24 not 25 | US-PGPUB; USPAT; EPO; JPO | ADJ | ON | 2009/10/28 17:01 |
| L27 | 38 | (1 or 2) and 6 and 13 not 11 not 12 not 15 not 16 not 17 not 18 not 19 not 20 not 21 not 22 not 23 not 24 not 25 not 26 | US-PGPUB; USPAT; EPO; JPO | ADJ | ON | 2009/10/28 17:02 |
| L28 | 7 | (1 or 2) and 5 and 13 not 11 not 12 not 15 not 16 not 17 not 18 not 19 not 20 not 21 not 22 not 23 not 24 not 25 not 26 not 27 | US-PGPUB; USPAT; EPO; JPO | ADJ | ON | 2009/10/28 17:02 |
| L29 | 28 | (1 or 2) and 4 and 3 same ((etch or etching or hard or harden or hardening or hardened) (mask or stop or stopper or stopping or protect or protector or protecting or protected) or hardmask or etchmask or etchstop or etchstopper) same (dry or gas or gaseous or vapor or vaporous or plasma) same (fluorine or fluorinate or | US-PGPUB; USPAT; EPO; JPO | ADJ | ON | 2009/10/28 17:11 |

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| | | fluorinated or fluorinating or fluorination or carbontetrafluoride or carbon tetrafluoride or carbon tet or CF".sub.4" or CF4) not 11 not 12 not 15 not 16 not 17 not 18 not 19 not 20 not 21 not 22 not 23 not 24 not 25 not 26 not 27 not 28 | | | | |
| L30 | 14 | (1 or 2) and 3 same ((etch or etching or hard or harden or hardening or hardened) (mask or stop or stopper or stopping or protect or protector or protecting or protected) or hardmask or etchmask or etchstop or etchstopper) near6 (fluorine or fluorinate or fluorinated or fluorinating or fluorination or carbontetrafluoride or carbon tetrafluoride or carbon tet or CF".sub.4" or CF4) not 11 not 12 not 15 not 16 not 17 not 18 not 19 not 20 not 21 not 22 not 23 not 24 not 25 not 26 not 27 not 28 not 29 | US-PGPUB; USPAT; EPO; JPO | ADJ | ON | 2009/10/28 17:13 |

EAST Search History (I nterference)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
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| L31 | 7603 | 430/5.ccls. | US-PGPUB; USPAT; UPAD | ADJ | ON | 2009/10/28 17:15 |
| L32 | 213 | 216/12.ccls. not 31 | US-PGPUB; USPAT; UPAD | ADJ | ON | 2009/10/28 17:15 |

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| L33 | 36 | (31 or 32) and (((mask or photomask or reticle) near3 (phase or phased or phasing or shift or shifter or shifted or shifting) or \$3PSM) and ((etch or etching or hard or harden or hardening or hardened) (mask or stop or stopper or stopping or protect or protector or protecting or protected) or hardmask or etchmask or etchstop or etchstopper) and (fluorine or fluorinate or fluorinated or fluorinating or fluorination or carbontetrafluoride or carbon tetrafluoride or carbon tet or CF".sub.4" or CF4)).clm. | US-PGPUB; USPAT; UPAD | ADJ | ON | 2009/10/28 17:22 |
| L34 | 2 | ((mask or photomask or reticle) and ((etch or etching or hard or harden or hardening or hardened) (mask or stop or stopper or stopping or protect or protector or protecting or protected) or hardmask or etchmask or etchstop or etchstopper) and (fluorine or fluorinate or fluorinated or fluorinating or fluorination or carbontetrafluoride or carbon tetrafluoride or carbon tet or CF".sub.4" or CF4) and (resist or photoresist) and (process or processing or processed or method or manufacture or manufacturing or manufactured or form or formed or forming or made or make or making or step) and (shield or shielding or shielded or shade or shading or shaded or dark or darken or darkening or darkened or opaque or block or blocking or blocked or halftone or half tone or semitransparent or semi transparent or attenuate or | US-PGPUB; USPAT; UPAD | ADJ | ON | 2009/10/28 17:35 |

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| attenuated or attenuating) and (auxiliary or assist or assisting or assisted or optical proximity or "OPC" or subresolution or subresolve or subresolved or subresolving or nonresolution or nonresolve or nonresolved or nonresolving or subprint or subprinted or subprinting or nonprint or nonprinted or nonprinting or (sub or non or "not") (resolution or resolve or resolved or resolving or print or printed or printing))).clm. not 33 | | | |
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